

Claims

1. A system of three-dimensional multipurpose elements, consisting of single solid elements, which can move, connect one to and disconnect one from another, containing programmable integrated circuits, interlocks for linking respective single elements and electromagnets; of the system said being characteristic that the casing walls (6) of a single element of the system have magnetic polarisation depending on the programmed position of the single element in the real structure under formation (9), and at the same time, in the active state of a single element, the walls (6) of the casing of a single element of the system have different magnetic polarisation, whereas in the inactive state of a single element, the walls (6) of the casing of a single element of the system have identical magnetic polarization, and upon connecting an active single element of the system to an inactive single element of the system, information about a virtual object (10) and information on the successive running number (13) in the real structure (9) of the inactive single element of the system being connected is transmitted from an active single element of the system to the memory of the integrated circuit (1) of the inactive single element of the system, while sets of co-ordinates of the walls (6) of the casing of a given single element of the system are assigned to the running numbers (13) of single elements of the system, the sets of those data are transferred to the program (12) in the integrated circuit (1) of each single element of the system, and the program (12) in the integrated circuit (1) is to decide on activation or deactivation of the respective walls (6) of single elements of the system and on assigning a proper running number (13) to a single element of the system to be linked successively.
2. A system according to Claim 1, characteristic thereof being that magnetic polarization in the walls (6) of the casing of a single element of the system is generated by electromagnets (8) placed inside a single element of the system.

3. A system according to Claim 1, characteristic thereof being that the walls
(6) of the casing of a single element of the system are connected to each
other so that their reciprocal position can be changed.
4. A system according to Claim 3, characteristic thereof being that the walls
5 (6) of the casing of a single element of the system are connected with
each other by means of electroplastic actuator (3) which control the
reciprocal positioning of the walls (6) according to the exciting signals
transmitted from the programmable integrated circuit (1).
5. A system according to Claim 1, characteristic thereof being that a single
10 element of the system has a voltage source (5) supplying the integrated
circuit (1), interlocks (7), electromagnets (8) and electroplastic actuator
(3).
6. A system according to Claim 5, characteristic thereof being that the
voltage source (5) is renewable due to supply from solar batteries. (4).
- 15 7. A system according to Claim. 6, characteristic thereof being that the light
to the solar batteries (4) is carried in light pipes (2).
8. A system according to Claim 1 or 7, characteristic thereof being that the
light pipes (2) carry to the integrated circuit (1) both information on the
object (10) and program instructions (12)
- 20 9. A system according to Claim 3, characteristic thereof being that to running
numbers (13) are assigned sets of co-ordinates of the walls (6) of single
elements of the system, whereas the sets of those data are transferred to
the program (12) in the integrated circuit (1) of each single element of the
system.
- 25 10. A system according to Claim 1, characteristic thereof being that the real
structure (9) of the object may be dissipated to the initial state of single
elements of the system through deactivation of all casing walls (6) of
single system elements and disconnection of all interlocks (7) in
consequence of having transmitted appropriate information to the
30 integrated circuit (1).